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Education Information

Doctorate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyoloji, Turkey 2001 - 2007

Postgraduate, Hacettepe University, Tıp Fakültesi, Tıbbi Biyoloji, Turkey 1999 - 2001

Undergraduate, Middle East Technical University, Fen Fakültesi, Biyoloji, Turkey 1995 - 1999

Foreign Languages

English, C1 Advanced

Research Areas

Medicine, Health Sciences, Fundamental Medical Sciences, Medical Biology

Academic Titles / Tasks

Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2020 - Continues

Associate Professor, Hacettepe University, Tıp Fakültesi (Türkçe), Temel Tıp Bilimleri Bölümü, 2013 - 2020

Advising Theses

PEYNİRCİOĞLU B., Ailevi akdeniz ateşi (AAA) hastalarında inflamatuvar hücre göçünün incelenmesi, Postgraduate, E.AVCI(Student), 2016

PEYNİRCİOĞLU B., İnflamatuvar hücre göçü sürecinde pyrin ve aktin ile ilişkili proteinlerin moleküler analizi, Postgraduate, C.GÜLER(Student), 2014

Published journal articles indexed by SCI, SSCI, and AHCI

- Anti-LAMP-2 Antibody Seropositivity in Children with Primary Systemic Vasculitis Affecting Medium- and Large-Sized Vessels**

AKBABA T. H., Toor K. K., Mann S. K., Gibson K. M., Alfaro G. A., Balci-Peynircioglu B., Cabral D. A., Morishita K. A.,

Brown K. L.

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- II. **Cellular models in autoinflammatory disease research**
Şen B., Balci-Peynircioğlu B.
Clinical and Translational Immunology, vol.13, no.1, 2024 (SCI-Expanded)
- III. **Behçet's syndrome: recent advances to aid diagnosis**
AKBABA T. H., EKİCİ M., Çolpak A. İ., Brown K. L., KARADAĞ Ö., Balci-Peynircioğlu B.
Clinical and Experimental Medicine, vol.23, no.8, pp.4079-4090, 2023 (SCI-Expanded)
- IV. **Drug metabolism and inflammation related distinct miRNA signature of colchicine resistant familial Mediterranean fever patients**
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Tavukcuoğlu Z., AKKAYA ULUM Z. Y., YERSAL N., Horzum U., AKBABA T. H., KARADAĞ Ö., ESENDAĞLI G., KORKUSUZ P., ÖZEN S., Balci-Peynircioğlu B.
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- VI. **The pyrin inflammasome aggravates inflammatory cell migration in patients with familial Mediterranean fever**
Akbaba T. H., Akkaya-Ulum Y. Z., Demir S., Ozen S., Balci-Peynircioğlu B.
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- VII. **Human Ace D/I Polymorphism Could Affect the Clinicobiological Course of COVID-19.**
Aladag E., Tas Z., Ozdemir B. S., Akbaba T. H., Akpınar M. G., Goker H., Unalan-Altıntop T., Inkaya A. C., Alp A., Metan G., et al.
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- VIII. **Microbiome is not linked to clinical disease severity of familial Mediterranean fever in an international cohort of children.**
Ozen S., Lutz H. L., Rivera V. M., Reiff A., Batu E. D., Anderson E., Salas Garcia M., Aldrovandi G., Akbaba T. H., Pazarbasi İ., et al.
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- IX. **Inflammation-related differentially expressed common miRNAs in systemic autoinflammatory disorders patients can regulate the clinical course.**
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- X. **Biologia Futura: the importance of 3D organoids-a new approach for research on neurological and rare diseases**
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- XI. **Familial Mediterranean fever-related miR-197-3p targets IL1R1 gene and modulates inflammation in monocytes and synovial fibroblasts**
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- XII. **Analysis of polymorphisms in the colchicine binding site of tubulin in colchicine-resistant familial Mediterranean fever patients.**
Akbaba T. H., Ustabas G., Kasap-Cuceloglu M., Ozen S., Balci-Peynircioğlu B.
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- XIII. **The Common miRNA Signatures Associated with Mitochondrial Dysfunction in Different Muscular Dystrophies**
AKSU MENGEŞ E., Akkaya-Ulum Y. Z., DAYANGAÇ ERDEN D., Balci-Peynircioğlu B., YÜZBAŞIOĞLU A., Topaloglu H., TALİM B., Balci-Hayta B.
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- XIV. **Ancient familial Mediterranean fever mutations in human pyrin and resistance to *Yersinia pestis*.**
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- XV. **Epigenetics for Clinicians from the Perspective of Pediatric Rheumatic Diseases.**
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- XVI. **Comorbidities in familial Mediterranean fever: analysis of 2000 genetically confirmed patients.**
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- XVII. **Autoinflammation in addition to combined immunodeficiency: SLC29A3 gene defect**
Cagdas D. N., Surucu N., TAN Ç., ÖZGÜL R. K., Akkaya-Ulum Y. Z., Aydinoglu A. T., Aytac Ş. S., GÜMRÜK F., Balci-Hayta B., Balci-Peynircioglu B., et al.
MOLECULAR IMMUNOLOGY, vol.121, pp.28-37, 2020 (SCI-Expanded)
- XVIII. **A method for high-purity isolation of neutrophil granulocytes for functional cell migration assays**
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TURKISH JOURNAL OF BIOCHEMISTRY-TURK BIYOKIMYA DERGISI, vol.44, no.6, pp.810-821, 2019 (SCI-Expanded)
- XIX. **Potential of miRNAs to predict and treat inflammation from the perspective of Familial Mediterranean Fever.**
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- XX. **Effects of calcium hydroxide and N-acetylcysteine on MMP-2, MMP-9, TIMP-1 and TIMP-2 in LPS-stimulated macrophage cell lines**
Astantas E. E., AKSOY Y., Ulum Y. Z. A., CEYHAN D., PEYNİRCİOĞLU B., DOĞAN BUZOĞLU H.
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- XXII. **New workflow for classification of genetic variants' pathogenicity applied to hereditary recurrent fevers by the International Study Group for Systemic Autoinflammatory Diseases (INSAID).**
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- XXIII. **Common miRNA signatures in a group of rare neuromuscular disorders**
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- XXIV. **Behçet Disease serum is immunoreactive to neurofilament medium which share common epitopes to bacterial HSP-65, a putative trigger.**
Lule S., Colpak A. I., Balci-Peynircioglu B., Gursoy-Ozdemir Y., Peker S., Kalyoncu U., Can A., Tekin N., Demiralp D., Dalkara T.
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- XXV. **Alteration of the microRNA expression profile in familial Mediterranean fever patients**
Akkaya-Ulum Y. Z., Balci-Peynircioglu B., KARADAĞ Ö., Eroglu F. K., KALYONCU U., KİRAZ S., Ertenli A. I., ÖZEN S., YILMAZ E.
CLINICAL AND EXPERIMENTAL RHEUMATOLOGY, vol.35, no.6, 2017 (SCI-Expanded)
- XXVI. **The effect of N-acetylcysteine and calcium hydroxide on TNF-alpha and TGF-beta 1 in lipopolysaccharide-activated macrophages**

- Karapinar S. P., ULUM Y. Z. A., ÖZÇELİK B., BUZOĞLU H., Ceyhan D., PEYNİRCİOĞLU B., AKSOY Y.
ARCHIVES OF ORAL BIOLOGY, vol.68, pp.48-54, 2016 (SCI-Expanded)
- XXVII. **Pyrin-PSTPIP1 colocalises at the leading edge during cell**
Akkaya-Ulum Y. Z., Balci-Peynircioglu B., PURALI N., YILMAZ E.
CELL BIOLOGY INTERNATIONAL, vol.39, no.12, pp.1384-1394, 2015 (SCI-Expanded)
- XXVIII. **Investigation of the inflammatory cell migration process in familial Mediterranean fever**
Ulum Y. A., Avci E., Batu E., KARADAĞ Ö., ÖZEN S., PURALI N., YILMAZ E., PEYNİRCİOĞLU B.
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- XXIX. **Familial Mediterranean Fever -- an increasingly important childhood disease in Sweden.**
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- XXX. **The effect of colchicine on pyrin and pyrin interacting proteins.**
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- XXXI. **Expression of ASC in post-mortem brain samples of alzheimer's disease patients: A possible role for ASC in a β amyloid formation**
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- XXXIII. **Pyrin Modulates the Intracellular Distribution of PSTPIP1**
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- XXXVI. **Pyrin, product of the MEFV locus, interacts with the proapoptotic protein, Siva.**
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- XXXVII. **The analysis of interleukin-1 receptor antagonist and interleukin-1beta gene polymorphisms in Turkish FMF patients: do they predispose to secondary amyloidosis?**
Balci-Peynircioglu B., Taşkiran Z. E., Türel B., Arici M., Bakkaloğlu A., Ozen S., Yilmaz E.
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- XL. **Identification of the difference in extracellular matrix and adhesion molecules of cultured human**

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- XLII. **Genetic risk factors of amyloidogenesis in familial Mediterranean fever.**
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- XLIII. **Familial Mediterranean fever (FMF) in Turkey - Results of a nationwide multicenter study**
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- XLIII. **Influence of Serum Amyloid A (SAA1) and SAA2 gene polymorphisms on renal amyloidosis, and on SAA/C-reactive protein values in patients with familial mediterranean fever in the Turkish population.**
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Articles Published in Other Journals

- I. **Potential Impacts of Gut Microbiota On Immune System Related Diseases: Current Studies and Future Challenges**
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- II. **Data of indirect immunofluorescence labeling of the mouse brain sections with sera from SLE and MS patients.**
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Refereed Congress / Symposium Publications in Proceedings

- I. **Children with Congenital Heart Diseases: Any Correlation between Mitochondrial Functions of**

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- II. **Possible relationship between mevalonate kinase and cell migration from perspective of mevalonate kinase deficiency**
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- III. **Possible Regulatory Effects Of miRNAs In The Pathogenesis Of Systemic Auto Inflammatory Diseases From The Perspective Of Familial Mediterranean Fever**
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- VII. **MiRNAs as Possible Modulators in the Pathogenesis of Systemic Auto Inflammatory Diseases**
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Supported Projects

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